

raised rib on the crankcase (A, **Figure 167**). You will usually hear a click when the return spring hooks on correctly.

5. Continue to rotate the kickstarter assembly *clockwise* and hook the ratchet pawl onto the ratchet guide (B, **Figure 167**) on the crankcase.

6. After installation is complete, make sure the punch mark on the kickstarter shaft is pointing straight UP. If the punch mark is pointing straight down, the ratchet was incorrectly aligned onto the kickstarter

shaft during the assembly procedure. Refer to Step 4 and Step 5, *Assembly* in this chapter.

7. Check the operation of the kickstarter drive gear at this point as follows:

- a. With the kickstarter lever in the relaxed position; spin the gear—it should spin freely.
- b. Move the kickstarter *clockwise* about 90°. Try to spin the kickstarter gear—it should not spin since the ratchet is now meshed with the backside of the drive gear.

8. Remove the kickstarter lever.

9. Install both clutch assemblies as described in Chapter Five.

10. Install the right-hand crankcase cover as described in this chapter.

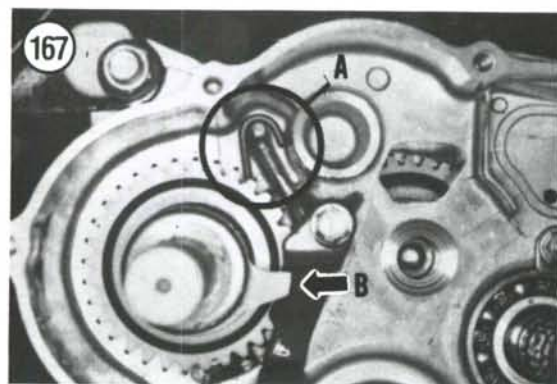
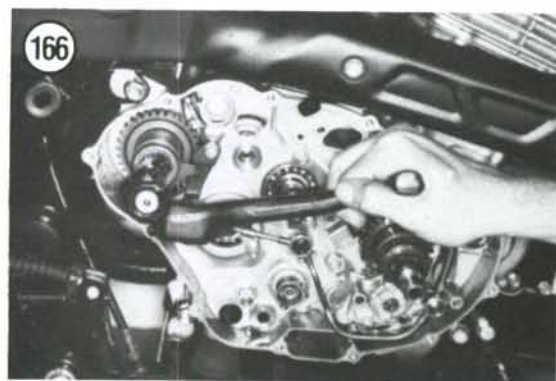
11. Fill the engine with the recommended type and quantity of engine oil as described in Chapter Three.

RIGHT-HAND CRANKCASE COVER

Refer to **Figure 168** for this procedure.

Removal

1. Place the vehicle on level ground and set the parking brake.
2. Drain the engine oil as described in Chapter Three.
3. Shift the transmission into NEUTRAL.
4. Remove the bolts securing the right-hand foot peg assembly (**Figure 169**) and move the assembly out of the way.
5. Remove the bolt securing the kickstarter lever (**Figure 170**) and remove the lever.
6. Remove the bolt and sealing washers (**Figure 171**) securing the external oil line to the right-hand crankcase cover. Don't lose the sealing washers.
7. Remove the bolt securing the switch cover (**Figure 172**) and remove the cover.
8. Disconnect the electrical wires from the neutral and the reverse switches (A, **Figure 173**) and from the oil high temperature sensor (B, **Figure 173**). Move the wires out of the way.
9. Remove the bolt securing the reverse cable bracket and unhook the cable (C, **Figure 173**) from the reverse cable holder arm.
10. Remove the bolt securing the reverse cable holder arm to the shaft and remove the holder arm.



11. Remove the bolts securing the right-hand crankcase cover and remove the cover and gasket. Don't lose the locating dowels.

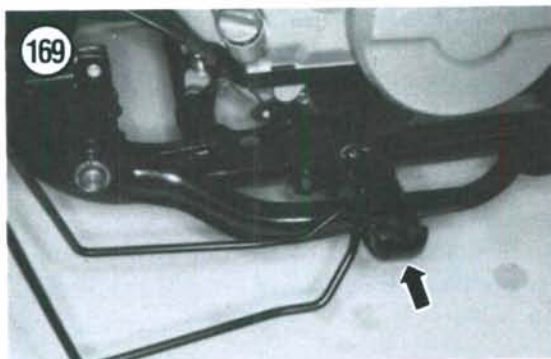
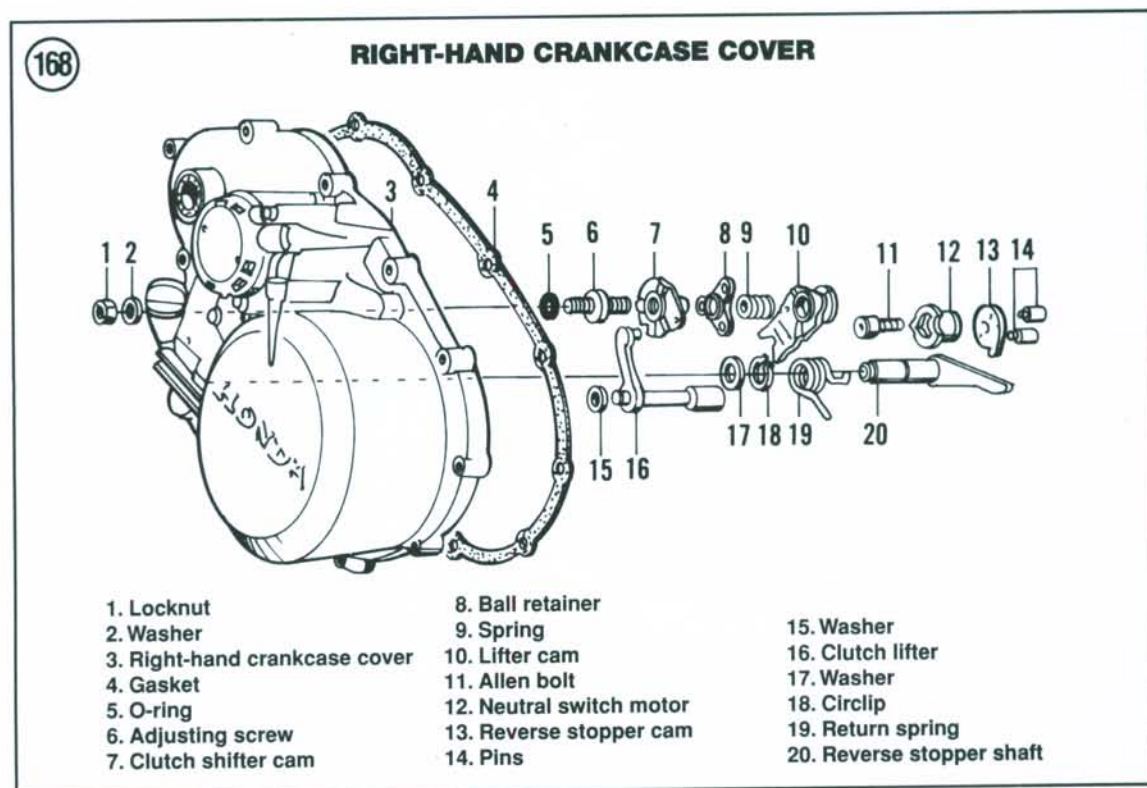
Inspection

1. Inspect the transmission shaft bearing (Figure 174). Make sure it rotates smoothly with no signs of wear or damage. Replace as necessary.
2. Inspect the reverse stopper shaft oil seal (A, Figure 175) for wear or deterioration. Replace if there is evidence of oil leakage past the seal.

3. Make sure the neutral and the reverse switches (B, Figure 175) and the oil high temperature sensor (C, Figure 175) are tight. Tighten if necessary.

Installation

1. If removed, install the locating dowels. Refer to Figure 176 and Figure 177, then install a new gasket (Figure 178).
2. Make sure the small O-ring (Figure 179) is still in place on the upper end of the oil pipe assembly.



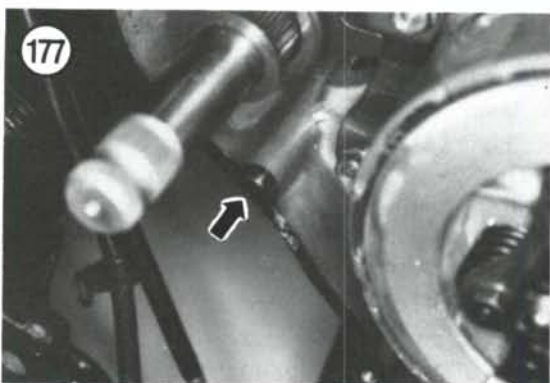
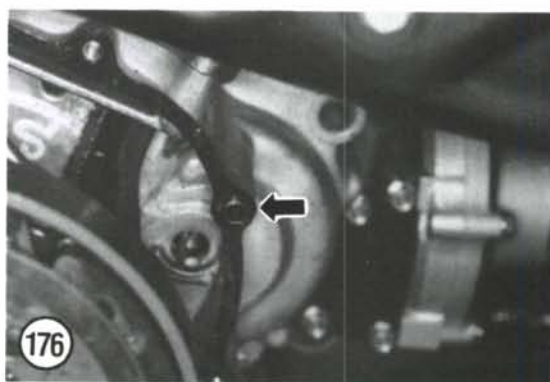
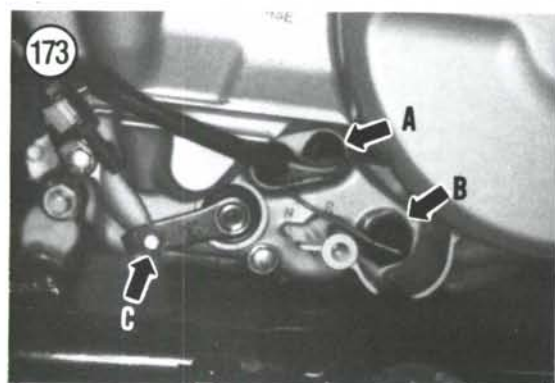
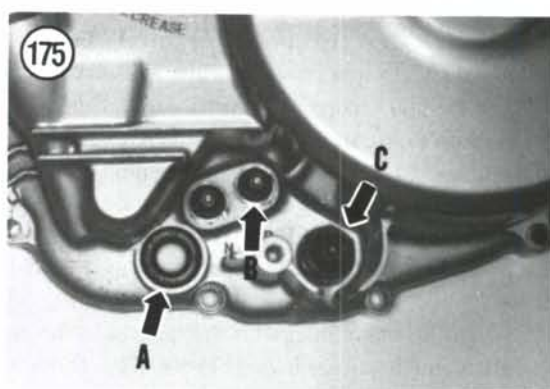
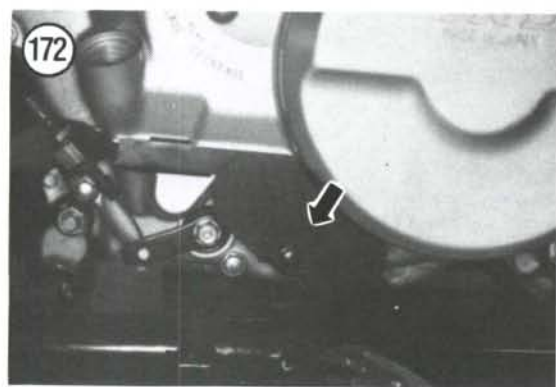


3. Make sure the clutch lifter (**Figure 180**) is in place in the right-hand crankcase cover.

4. Make sure the ball retainer (**Figure 181**) is in place in the manual clutch assembly. Refer to Chapter Five if necessary.

5. Install the right-hand crankcase cover and bolts. Tighten the bolts in a criss cross pattern in 2-3 stages. Tighten them to the torque specification listed in **Table 2**.

4



6. Position the reverse lever with the "OUT" mark facing toward the outside and install the lever and bolt. Tighten the bolt securely.
7. Hook the cable (C, **Figure 173**) onto the reverse cable holder arm.
8. Install the reverse cable bracket and bolt and tighten securely.

NOTE

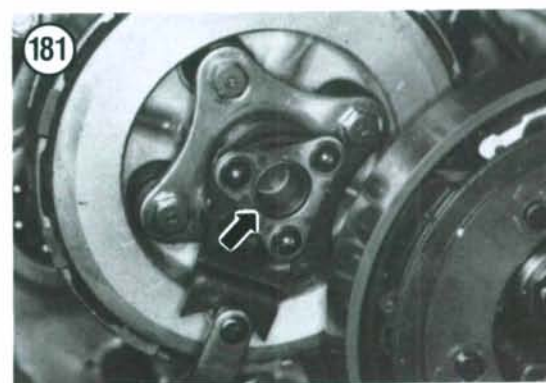
Make sure all electrical connections are free of corrosion and are tight.

9. Connect the electrical wires onto the oil high temperature sensor (B, **Figure 173**) and to the neutral and the reverse switches (A, **Figure 173**).
10. Install the switch cover (**Figure 172**) and bolt. Tighten the bolt securely.
11. Be sure to install a sealing washer on each side of the fitting on the oil line. Install the union bolt and sealing washers (**Figure 171**) securing the external oil line to the right-hand crankcase cover. Tighten the union bolt to the torque specification listed in **Table 2**.
12. Align the index marks on the kickstarter lever and shaft and install the lever (**Figure 170**). Tighten the bolt securely.
13. Install the right-hand foot peg assembly (**Figure 169**). Install the bolts and tighten to the torque specification listed in **Table 2**.
14. If removed, install the exhaust system as described in Chapter Seven.
15. Fill the engine with the recommended type and quantity of engine oil as described in Chapter Three.

LEFT-HAND CRANKCASE COVER

Removal/Installation

1. Drain the engine oil as described in Chapter Three.
2. Remove the bolts securing the left-hand foot peg assembly (A, **Figure 182**) and remove the assembly.
3. Remove the clamping bolt on the gearshift lever (B, **Figure 182**) and remove the lever.
4. On 4-wheel drive models, remove the side drive shaft (A, **Figure 183**) as described in Chapter Ten.
5. Remove the starter reduction gears (B, **Figure 183**) as described in this chapter.
6. Disconnect the alternator and pulse generator electrical connectors (**Figure 184**). Remove the electrical wires from the clips on the frame.



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